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TEST RESULTS OF BITUMEN CORE
(IRC:SP:57-2000)

LAB ID: CP-2016-07-18-01-01 Date:19/7/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name : Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix BC (Bituminious Concrete)

Date of test: 19/7/2016

Required thickness : BC : 40mm				
Sl. No	Chainage (meter)	Location	Core Thickness (mm)	Density (g/cc)
1	100	Center	42	2.24
2	230	RHS	41	2.26

Note:-

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TEST RESULTS OF BITUMEN CONTENT FOR BC
(AS per IRC:SP:-11-1984)

LAB ID: CP-2016-07-11-01-02 **Date:** 12/7/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name : Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix : BC (Bituminous Concrete)

Sample ID : 2016-07-11-01-02

Date of test: 11/7/2016

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	505	506
2	Weight of the sample After extraction	B	477	479
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	5.54	5.34
4	Average percentage	%	5.44	

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TEST RESULTS OF BITUMEN CONTENT FOR BC
(AS per IRC:SP:-11-1984)

LAB ID: CP-2016-07-11-01-02

Date: 12/7/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name : Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix : BC (Bituminous Concrete)

Sample ID : 2016-07-11-01-01

Date of test: 11/7/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	505	505
2	Weight of the sample After extraction	B	479	478
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	5.15	5.35
4	Average percentage	%	5.25	

Note:-

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

LAB ID: CP-2016-07-11-02-02 **Date:** 12/7/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix BC (Plant)

Sample ID : 2016-07-11-02-01

Date of test: 12/7/2016

Oven Dry Weight(gm) : 5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	79-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST RESULTS OF BITUMEN CONTENT FOR BM
(AS per IRC:SP:-11-1984)

LAB ID: CP-2016-07-10-01-02 Date: 11/7/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name : Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix : BM (Bituminous Macadam)

Sample ID : 2016-07-10-01-02

Date of test: 10/7/2016

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	508	503
2	Weight of the sample After extraction	B	486	480
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	4.33	4.57
4	Average percentage	%	4.45	

Note:-

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

LAB ID: CP-2016-07-10-02-02

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore — **Date:** 11/7/2016

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix BM (Plant)

Sample ID : 2016-07-10-02-02

Date of test: 10/7/2016

Weight of Sample(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-4(grading -2)
26.5	0	0	0	100	100
19	182	182	3.64	96.36	90-100
13.2	603	785	15.70	84.30	56-88
4.75	2855	3640	72.80	27.20	16-36
2.36	849	4489	89.78	10.22	4-19
0.3	280	4769	95.38	4.62	2-10
0.075	108	4877	97.54	2.46	0-8
PAN	123	5000	100.00	0.00	0

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

LAB ID: CP-2016-07-10-02-02 Date: 11/7/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix BM (Plant)

Sample ID : 2016-07-10-02-01

Date of test: 10/7/2016

Weight of Sample(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-4(grading -2)
26.5	0	0	0	100	100
19	162	162	3.24	96.76	90-100
13.2	510	672	13.44	86.56	56-88
4.75	2750	3422	68.44	31.56	16-36
2.36	910	4332	86.64	13.36	4-19
0.3	355	4687	93.74	6.26	2-10
0.075	230	4917	98.34	1.66	0-8
PAN	83	5000	100.00	0.00	0

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TEST RESULTS OF GRADATION FOR WMM
(IS 2386:(Part 1) 1963 (RA2011)

LAB ID: CP-2016-06-30-01-02 Date: 1/7/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix WMM (Wet Mix Macadam)

Sample ID : 2016-06-29-01-02

Date of test: 1/7/2016

Oven Dry Weight(gm) : 10595

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	290	290	2.74	97.26	95-100
22.4	2650	2940	27.75	72.25	60-80
11.2	2105	5045	47.62	52.38	40-60
4.75	2305	7350	69.37	30.63	25-40
2.36	1300	8650	81.64	18.36	15-30
0.6	550	9200	86.83	13.17	8-22
0.075	695	9895	93.39	6.61	0-8

TEST ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	standards as per MOST Vide Table 400.11
1	Liquid Limit, %	24.08%	Not more than 25%
2	Plasticity index, %	Non plastic	Not more than 6.0%

Note:
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATEIS 2386 (Part I) 1963 (RA 2007)

LAB ID: CP-2016-06-28-01-02 Date:29/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix WMM (Wet Mix Macadam)

Sample ID : 2016-06-28-01-01

Date of test: 29/6/2016

Result:

Flakiness Index = 12.29 %

Elongation Index = 14.43 %

Result: Combined Flakiness & Elongation Index for WMM = 26.72 %

Comments:

Maximum allowable Flakiness & Elongation Index For WMM (Wet Mix Macadam) is 30 %

Note:-

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

LAB ID: CP-2016-06-13-01-01

Date: 24/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Mix GSB (Granular Sub Base)

Sample ID : 2016-06-13-01-01

Date of test: 14/6/2016

Oven Dry Weight(gm) : 11970

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
75	0	0	0	100	100
53	1085	1085	9.06	90.94	80-100
26.5	1870	2955	24.69	75.31	55-90
9.5	1605	4560	38.10	61.90	35-65
4.75	1735	6295	52.59	47.41	25-55
2.36	2025	8320	69.51	30.49	20-40
0.425	1935	10255	85.67	14.33	10-25
0.075	960	11215	93.69	6.31	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	23.17%
2	Plasticity index, %	Non plastic

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-2016-05-18-01/02

Date: 9/6/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name : Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

SampleType : M20 Culvert Concrete

Age of the sample: 28 days Compressive Strength

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Sample ID : 2016-05-18-01/02

Date of test: 8/6/2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/4	M 20	11/05/2016	8/06/2016	150.88X148.5X 150.11	22405	8.132	548.9	24.5	23.9
	1/5	M 20	11/05/2016	8/06/2016	151.65X149.26 X149.43	22635	8.054	539.5	23.8	
	1/6	M 20	11/05/2016	8/06/2016	151.50X149.98 X151.22	22723	8.093	532.7	23.4	

Note :-

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 9/5/2016

LAB ID: CP-2016-05-09-01/02
Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore
Project Name : Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.
Agency : M/s Sathya constructions
Work Order No: 01/14.15 Dated: 12/1/2015
SampleType : M20 Drain Concrete
Age of the sample: 7 days Compressive Strength
Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Sample ID : 2016-05-09-01/01
Date of test: 9/5/2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/1	M 20	2/5/2016	9/5/2016	150.76X149.45 X 148.98	22531	8.095	372.9	16.6	16.9
	1/2	M 20	2/5/2016	9/5/2016	150.23X149.59 X149.43	22473	8.113	382.3	17.0	
	1/3	M 20	2/5/2016	9/5/2016	151.89X149.56 X150.42	22717	8.102	388.7	17.1	

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TEST RESULTS OF PHYSICAL PROPERTIES OF CEMENT 53- GRADE

LAB ID: CP-2016-04-01-01/05 **Date:30/4/2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raitharu Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Sample : ACC 53 grade

Sample Id : 2016-04-01-01/01

Reference to BIS codes:
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test: 1/4/2016

SLNo.	Physical properties	Results	Requirement as per IS 12269 : 2013
1	Fineness by dry sieving	4.2%	-
2	Standard Consistency	28.5%	Not specified
3	Initial Setting time	190 minutes	Not less than 30 minutes
4	Final Setting time	310 minutes	Not more than 600 minutes
5	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
6	Compressive Strength		
	3 Days	28.5 N/mm^2	Not less than 23 N/mm2
	7 Days	39.0 N/mm^2	Not less than 33 N/mm2
	28 Days	55.5 N/mm^2	Min 43 N/mm2 Max 58 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-2016-04-28-01-02

Date: 28/4/2016

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name : Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

SampleType : M7.5 Culvert Concrete

Age of the sample: 7 days Compressive Strength

Reference to BIS codes: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Sample ID : 2016-04-28-01-01

Date of test: 28/4/2016

Sl. No.	Identification of sample	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
1	1/1	M 7.5	21/4/2016	28/4/2016	148.95X150.70 X 151.29	22446	8.155	128.2	5.7	5.7
	1/2	M 7.5	21/4/2016	28/4/2016	151.44X151.62 X151.21	22961	8.189	125.5	5.5	
	1/3	M 7.5	21/4/2016	28/4/2016	150.72X151.18 X150.00	22785	8.142	135.9	6.0	

Note:-

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CIVIL PRO
AN ISO 9001:2008 COMPANY
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL
(IS 1786-2008)

LAB ID: CP-2016-04-01-01/05 **Date: 3/4/2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Sample JSW, 12mm Dia, Fe 415

Sample Id : 2016-04-01-01/04 (c)

Date of test: 2/4/2016

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe 415	12mm	0.885	468	575	20%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe 415	12mm	Satisfactory	Satisfactory

Note:-
The results pertain to the samples received and tested.
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 15 days from the date of issue of test certificate

FOR CIVIL Pro

Prepared By:
Saritha

R KARTHIK REGHAN
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL
(IS 1786-2008)

LAB ID: CP-2016-04-01-01/05 **Date: 3/4/2016**

Client : Assistant Executive Engineer, Yelahanka Sub Division , BBMP , Bangalore

Project Name Widening of Road from NH-7 up to SWD Bridge along Jekkur Road Raithara Santhe in Yelahanka.

Agency : M/s Sathya constructions

Work Order No: 01/14.15 Dated: 12/1/2015

Type of Sample JSW, 16mm Dia, Fe 415

Sample Id : 2016-04-01-01/04 (d)

Date of test: 2/4/2016

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
2	JSW	Fe 415	16mm	0.1.52	492	608	18%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
2	JSW	Fe 415	16mm	Satisfactory	Satisfactory

Note:-

The results pertain to the samples received and tested.
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Prepared By:

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